

The diagram illustrates a magnetic field sensor system, divided into two main functional blocks, 1 and 2, connected by a signal line 4.

Block 1 (Top): This block contains a central core 12 with three windings: 12a, 12b, and 12c. Winding 12c is connected to a current source 11 and a sense amplifier 13. The sense amplifier 13 outputs a signal CVS_c . Winding 12b is connected to a bridge circuit 14, which is also connected to a reference voltage source 15. Winding 12a is connected to a bridge circuit 17, which is also connected to a reference voltage source 18. The output of the bridge circuit 14 is connected to a signal line 4.

Block 2 (Bottom): This block contains a core 21 with three windings: 22, 23, and 26. Winding 23 is connected to a current source 24 and a sense amplifier 25. The sense amplifier 25 outputs a signal $\Delta\Phi_L$. Winding 22 is connected to a bridge circuit 26, which is also connected to a reference voltage source 27. Winding 26 is connected to a bridge circuit 28, which is also connected to a reference voltage source 29. The output of the bridge circuit 26 is connected to a signal line 4.

Signal Line 4: This line carries the output signal from the bridge circuit 14 in Block 1 to the bridge circuit 26 in Block 2.

Fig. 2

